



Title: "Modulation Compression Method For The  
Radio Frequency Transmission of High Speed Data"

Serial No. 10/766,556

Attorney Docket No. P031686-0-07UT

Responsive to Office Action Mailed September 6, 2005

Date: September 30, 2005

**IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE**

Applicant:	Joseph Bobier and Nadeem Khan	)	
		)	
Serial No:	10/766,556	)	Group Art Unit: 2631
		)	
Filed:	January 28, 2004	)	Examiner: Bocure, Tesfaldet
		)	
For:	Modulation Compression Method For	)	
	The Radio Frequency Transmission	)	
	Of High Speed Data	)	
		)	
Attorney Docket:	P031696-07UT	)	

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Mail Stop AMENDMENT  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**RESPONSE**

In response to the Office Action mailed September 6, 2005, Applicant respectfully requests reconsideration of the above-referenced application in light of this response, the revised drawings, and amendment to the specification and claims as stated in the following paragraphs.

The Examiner has objected to the drawings under 37 CFR 1.83(a) as incompletely showing every feature of the invention as specified in the claims, specifically that the claimed altering the amplitude or phase of the wavelets in claims 1, 8 and 11 must be shown or the feature(s) canceled from the claim(s) and that no new matter should be entered. Applicant agrees with the Examiner's finding that these features of the claims are not shown in the drawings. New drawing sheets are attached showing these features and appropriate amendments to the

specification are made below to reference these new drawings. No new matter has been added as these items have been clearly described in the specification.

The Examiner has also rejected the claims under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The Examiner has stated that the third cycle is exaggerated (actually lowered in frequency creating a longer wavelength) in Figures 4 and 7 which relates to binary values in tables 5 and 8 respectively. The Examiner asks how the system would encode the rest of the binary values shown in Figures 5 and 8 given that the cycle three is exaggerated. The third cycle is selected for exemplary purposes only. If any one of the cycles within the frame of cycles, other than the third cycle, is used to index the modulation the list of binary values in figures 5 and 8 would not change, but rather if one of the other cycles within the frame of cycles is changed then that would indicate a different binary value relating to that different cycle resulting in the different binary value shown directly across from the changed cycle number in the tables. This process is repeated for any of the individual discrete cycles of the frame that match directly to each of the binary numbers in the table. Thus the system would encode each of the other binary values shown in figures 5 and 8 by exaggerating that particular cycle directly across from, and thus associated with, the binary value in the table. The discussions in paragraphs 78 and 81 are explaining the specific example of one of the cycles being changed as shown in the figures. The Applicant has now further amended the specification below in paragraphs 78 and 81 to clarify this. No new matter was added.

The Examiner has further stated that the numbering of claims is not in accordance with 37 CFR 1.126. Applicant has amended the numbering of the claims in the amendment below to show them in the proper manner.

The Examiner has further rejected the claims under 35 U.S.C.112, second paragraph as being indefinite. The Applicant appreciates the Examiner suggesting wording to correct this indefiniteness and has amended the claims below in accordance with Examiner's suggestions.

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The Applicant has, in the amendment below, amended the application in accordance with Examiner's suggestions. Accordingly, Applicant respectfully submits that the invention is clearly claimed and enabled.